

Fig. 1

GTGTGCTGGA GCCACTGTCC CCGATCTCGC GCACGCTACT GCTGCTGCTC GCGCGTGT C CCCCATCGTG CACTAAGCGG
 TCCCAAAAGA TTCAAGTCC AAGATGGCAG CCCUCAAGGA CCAGCTGATT GTGAATCTTC TTAAGGAAGA ACAGTCCCC
 CAGAACACAGA TTACAGTTGT TGGGTTGGT GCTGTTGGCA TGGCTTGTGC CATCAGTAT C TTAATGAAGG ACTTGGCTGA
 TGAGCTTGCC CTTGTTGATG TCATAGAAGA TAAGCTAAAG GGAGAGATGA TGGATCTTC A GCATGGCAGC CTTTCCCTTA
 AGACACCAAA AATTGTCTCC AGCAAGATT ATAGTGTGAC TGCAAACTCC AAGCTGGTC A TTATCACCC GGGGCCCCGT
 CAGCAAGAGG GAGAGAGCCG GCTCAATTG GTCCAGCGAA ACGTGAACAT CTTCAAGTT C ATCATTCCAA ATGTTGTGAA
 ATACAGTCCA CAGTGCAAAC TGCTCATCGT CTCAAACCCA GTGGAATATCT TGACCTACG T GGCTTGAAG ATCAGCGGCT
 TCCCCAAAAA CAGAGTTATT GGAAGTGGTT GCAATCTGGA TTGCGCTCGG TTCCGTTAC C TGAUGGAGA AAGGCTGGGA
 GTTCATCCAC TGAGCTGTCA CGGTTGGTC CTGGGAGAGC ATGGCGACTC CAGTGTGCC T GTGTGAGTG GTGTGAACGT
 CGCCGGCGTC TCCCTGAAGT CTCTGAACCC GCAGCTGGGC ACGGATGCAG ACAAGGAGC A GTGGAAGGAT GTGCACAAGC
 AGGTGTTGA CAGTGCAATAC GAAGTGATCA AGCTGAAGG TTACACATCC TGGGCCATT G GCCTCTCCGT GGCAGACTTG
 GCCGAGAGCA TAATGAAGAA CCTTAGGCGG GTGCATCCCA TTTCACCAT GATTAAAGG T CTCTATGGA TCAAGGAGGA
 TGTCTTCCTC AGCGTCCCAT GTATCCTGGG ACAAAATGGA ATCTCAGATG TTGTGAAG T GACACTGACT CCTGACGAGG
 AGGCCCCGCT GAAGAAGAGT GCAGATACCC TCTGGGGAAT CCAGAAGGAG CTGCAGTTC T AAAGTCTTCC CAGTGTCTA
 GCACCTTCACT GTCCAGGCTG CAGCAGGTT TCTATGAGA CCACGCACCT CTCACTGA G CTGTGTTAG TCCAGTTGGT
 CCAGTTGTGT TGAGGTGGTC TGGGGGAAT CTCAGTTCCA CAGCTCTACC CTGCTAAGT G GTACTGTGT AGTGTAACC
 TGGTTAGTGT GACAATCCCA CTGTCTCCAA GACACACTGC CAACTGCATG CAGGCTTG A TTACCCTGTG AGCCTGCTGC
 ATTGCTGTGC TACGCACCTT CACCAACAT GCCTAGGCCA TGAGTTCCCA GTTAGTTAT A AGCTGGCTCC AGTGTTAAG
 TCCATCGTGT ATATCTTGTG CATAATGTT CTACAGGATA TTTTCTGTAT TATATGTGT C TGTAGTGTAAC ATTGCAATAT
 TACGTGAAT GTAAGATCTG CATATGATG ATGGAACCA CCACTCAAGT GTCATGCCA A GGAATAACACC AAATTAACCT
 TGAACAGTG

Fig. 2A

MAALKDQLI VNLLEEQVPQNKITVGVGAVGMACAISIMKDLADELALVDVIEDKLKGE^MMDL
QHGSFLKTPKIVSSKDYSTANSKLVIITAGARQEGESRLNLVQRNVI^FKFIIPNVK^YSPQ
CKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLG^VHP^LSCHGW^LGEHGD
SSVPWSGVNVAGVSLKSLNPQLGTDADKEQWKDVHKQVDSAYEVI^KLKGY^TSWAIG^LSVADLA
ESIMKNLRVHPISTMIKGLYG^IKEDV^FLSVPCILGQNGISDVVKV^TLLTPDEAR^LKKSAD^TLLWG
IQKELQF

Fig. 2B

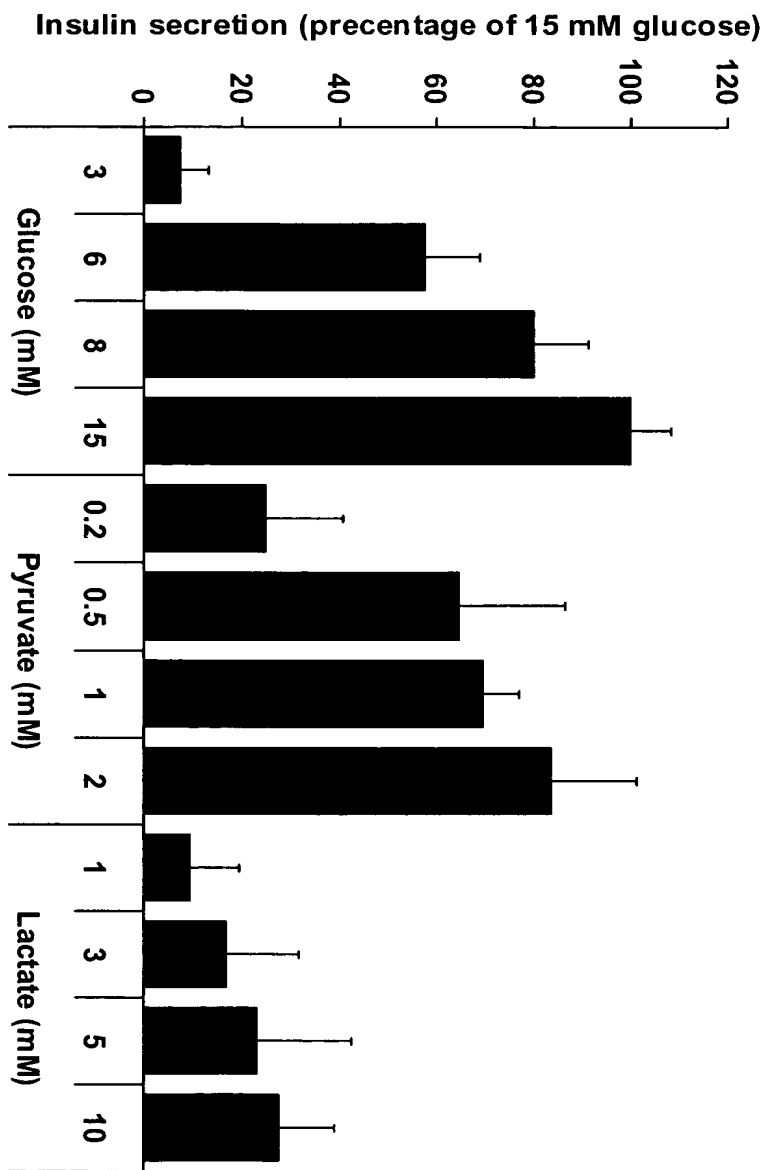


Fig. 3

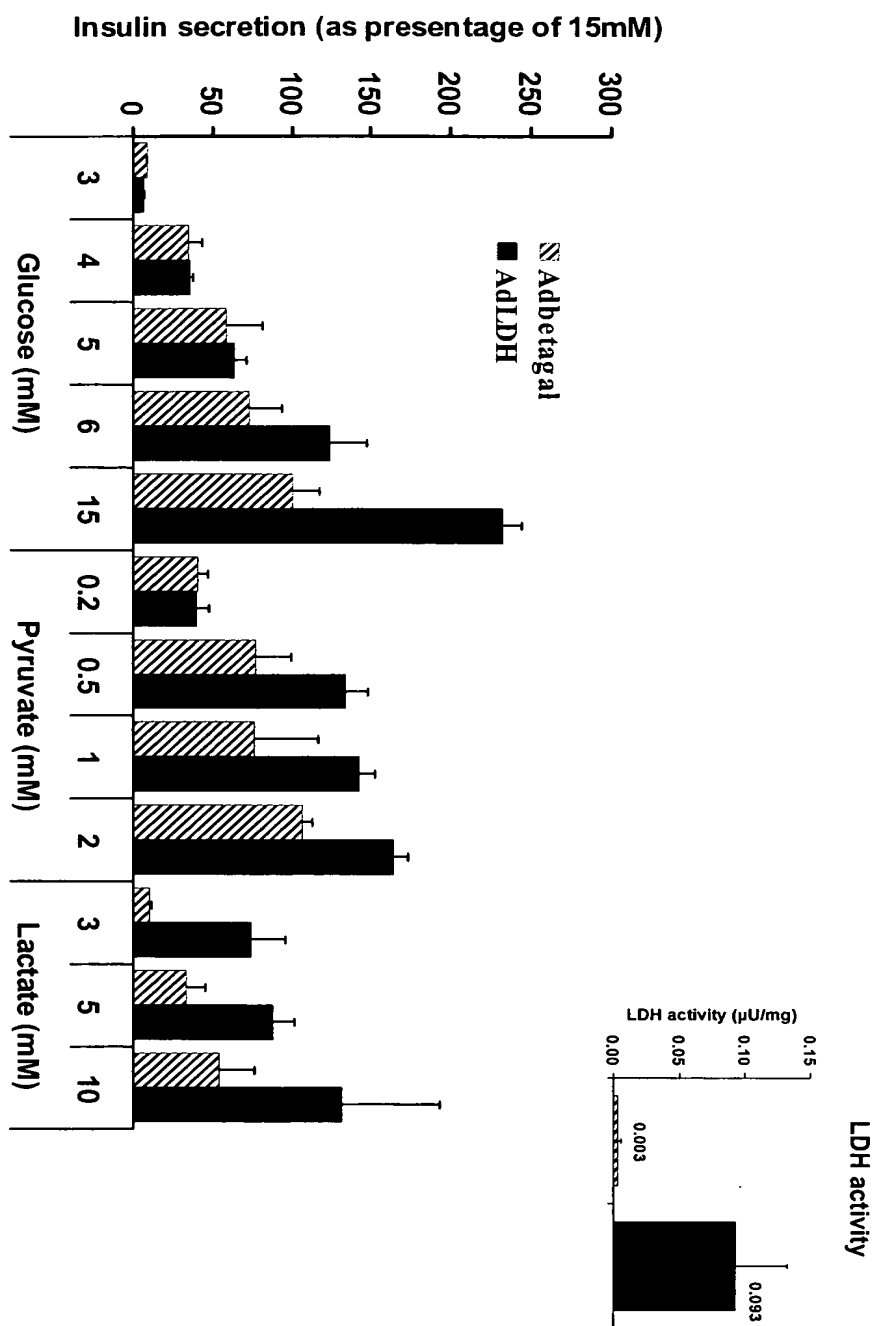


Fig. 4

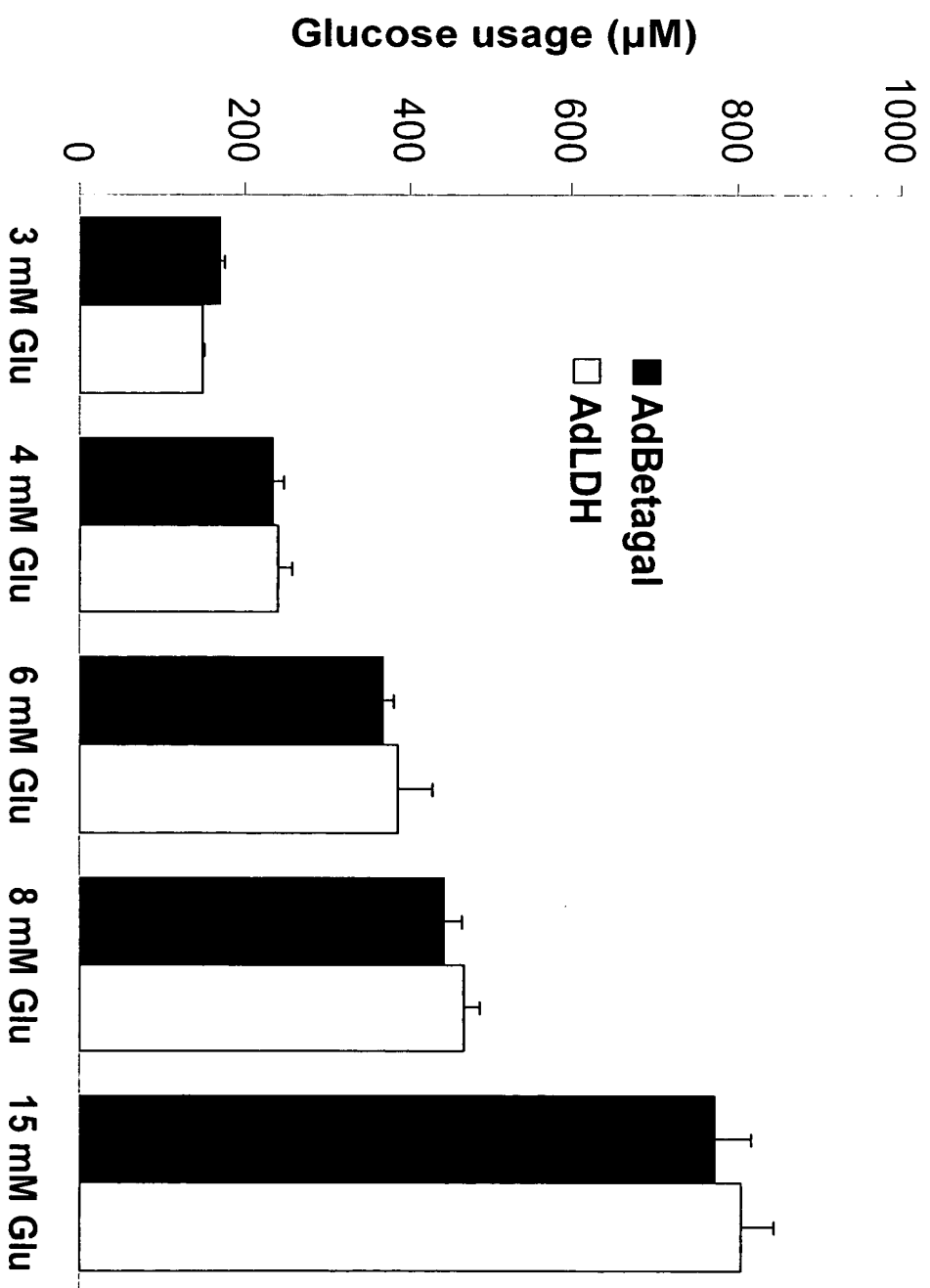


Fig. 5

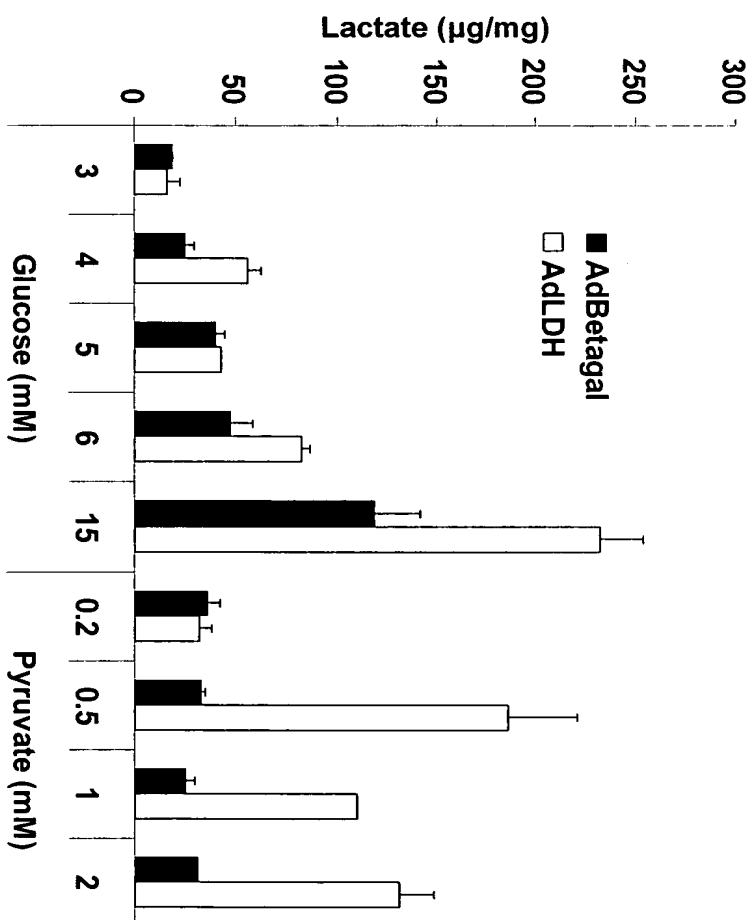


Fig. 6

Lactate output

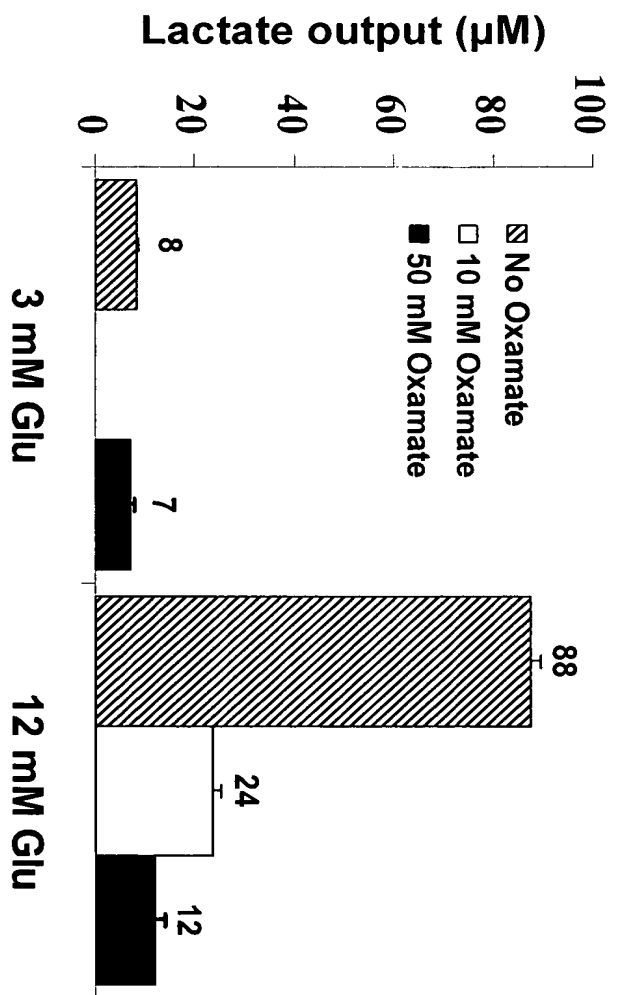


Fig. 7A

Insulin secretion

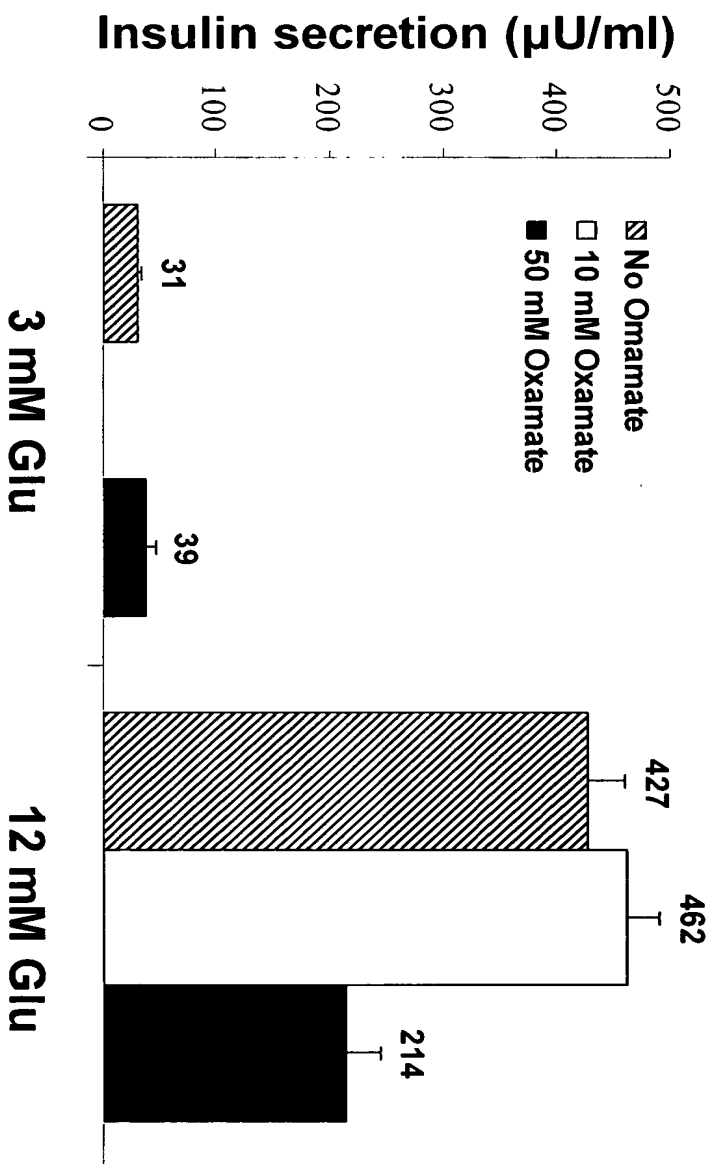


Fig. 7B

Pyruvate Cycling

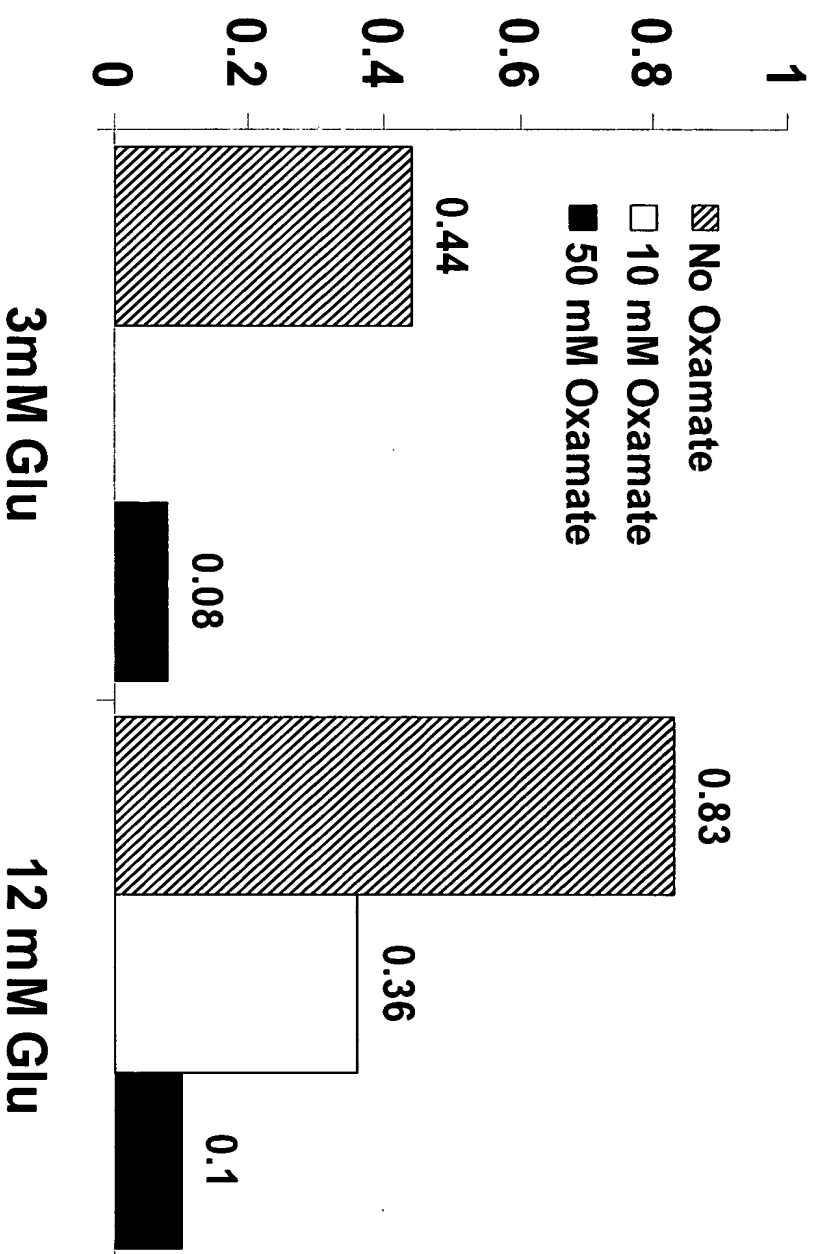


Fig. 7C

Oxamate inhibits Insulin secretion in islets

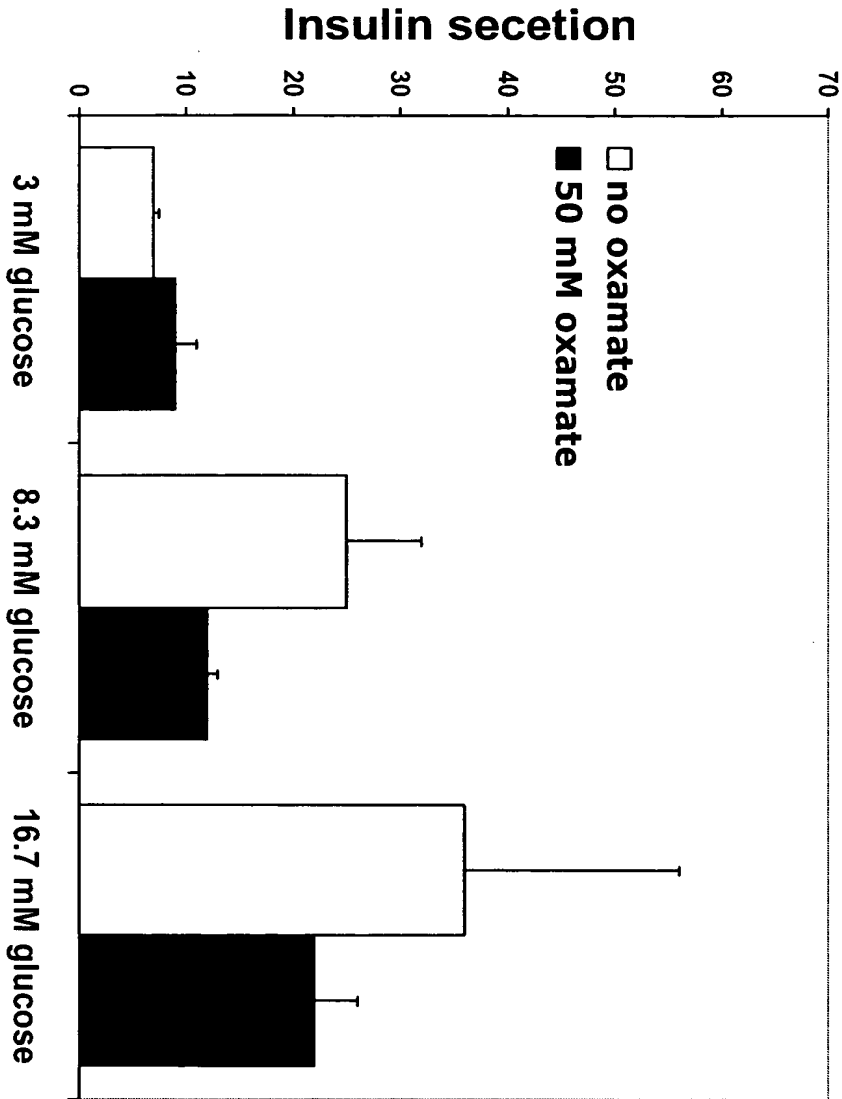


Fig. 7D

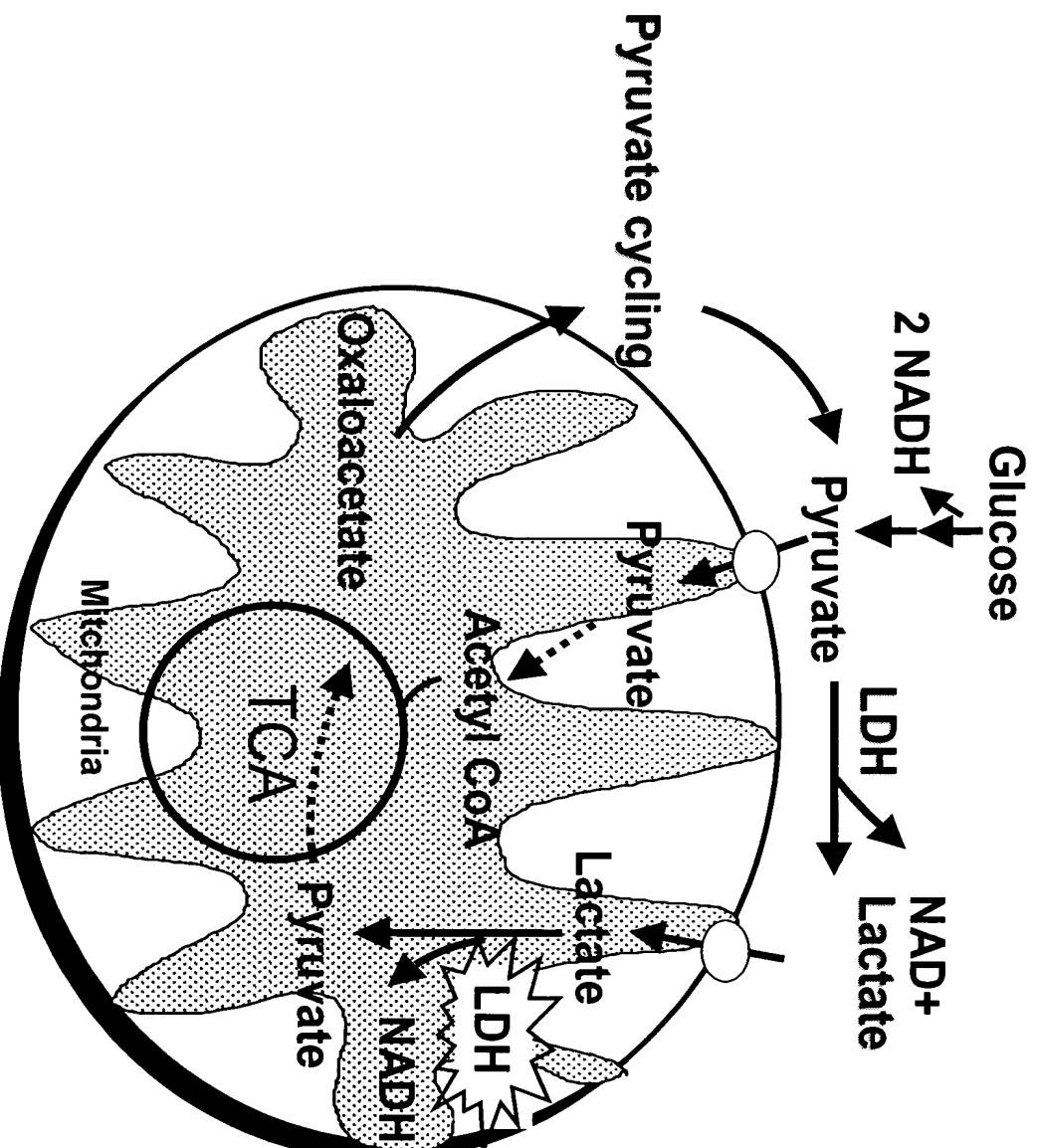


Fig. 8

Pyruvate Cycling Correlates with Lactate Production in Glycerol Kinase Expressing Cells.

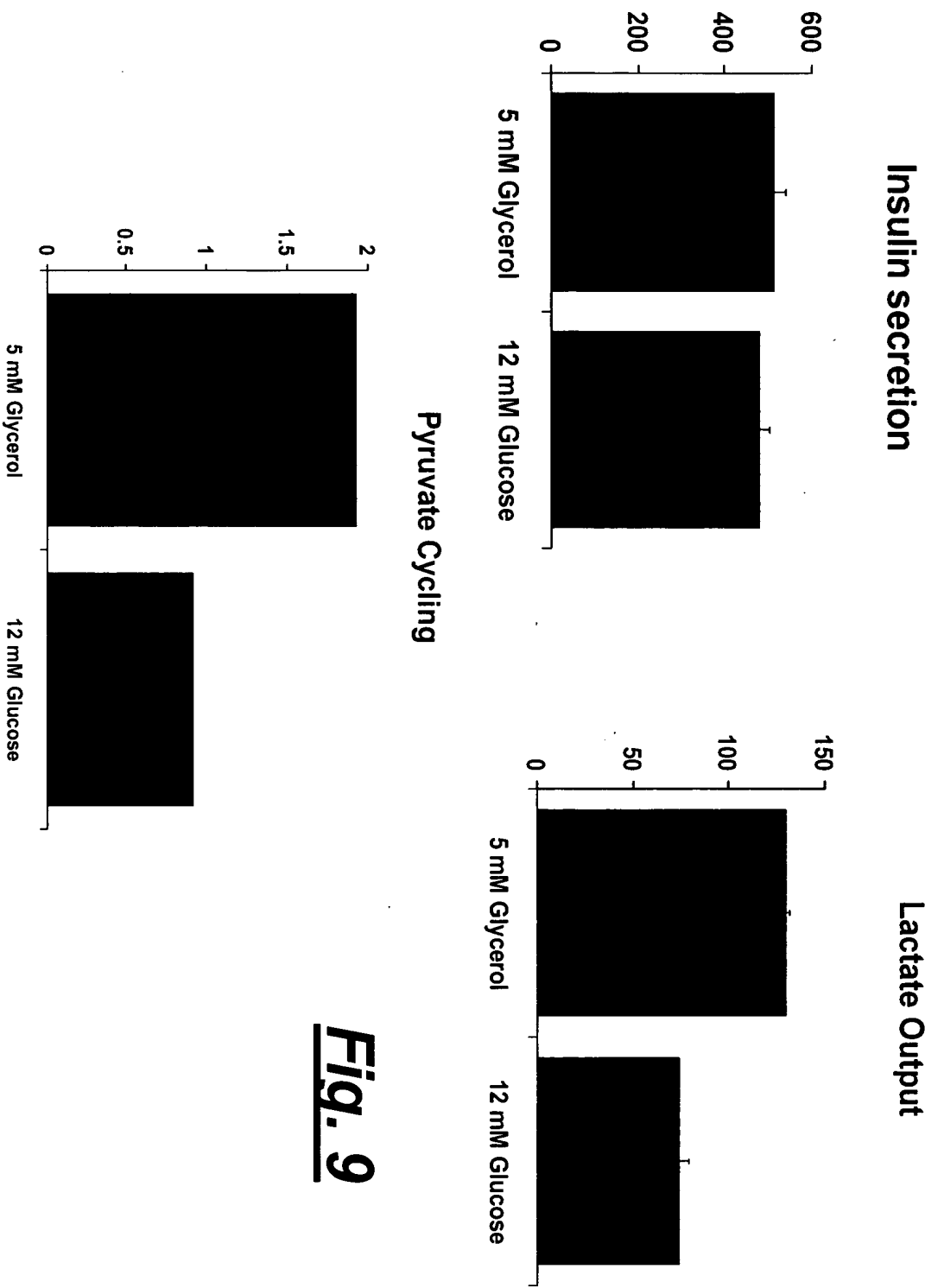


Fig. 9

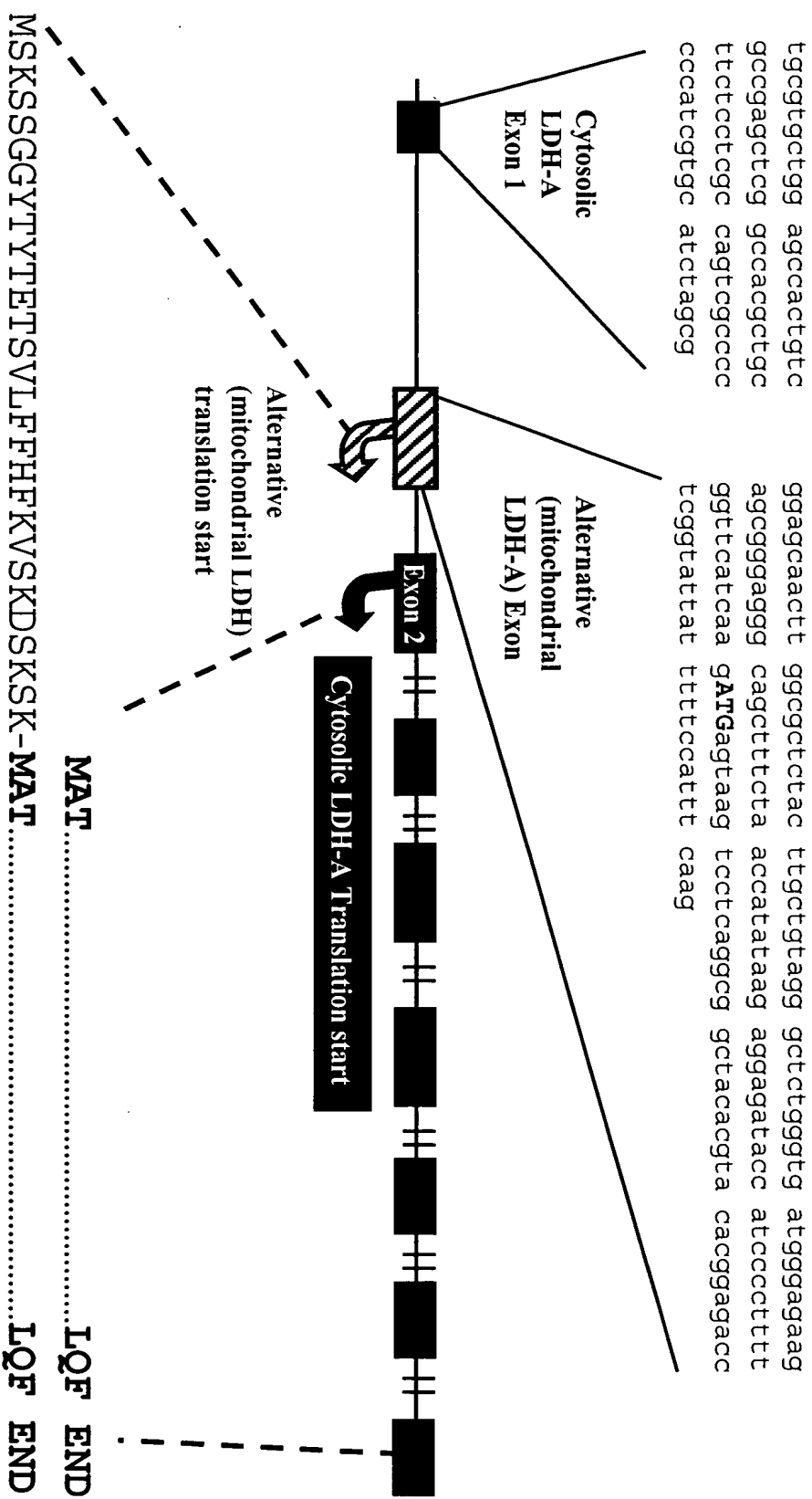


Fig. 10

The N-terminal leader sequence is conserved among different species

- Rat MSKNSGGYTTYTETSVLFFHFKVPKDSKSK
- Mouse MSKS_SGGYTTYTETSVLFFHFKVSKDSKSK
- Human MGEP_SGGYTTYTQT_SIFL_FHAKIPFGSKSN_
- Cons MSK SGGYTTYTETSVLFFHFKVPKDSKSK

Fig. 11

CGCTCTACTT GCTGTAGGAC TCTGGTGAT GGGAGAAGAG CCGGAGGGCA GTTCTTTAAC CGTGTAAAGAG GAGGACCAT
CCCTTTTGGG GTTCATCAAG ATGAGTAAGA ACTCAGCGCG CTACACATAT ACGGAGACCT CAGTATTATT TTTCATTTC
 AAGGTCCCAA AAGATTCAAA GTCCAAGATG GCAGCCCTCA AGGACCAGCT GATTGTGAAT CTTCTTAAGG AAGAACAGGT
 CCCCCAGAAC AAGATTACAG TTGTTGGGT TGGTGTCTTT GGCATGGCTT GTGCCATCA G TATCTTAATG AAGACTTGG
 CTGATGAGCT TGCCCTTGTT GATGTCATAG AAGATPAGCT AAAGGAGAG ATGATGGAT C TTCAGCATGG CAGCCTTTTC
 CTTAAGACAC CAAAAATTGT CTCCAGCAA GATTATAGTG TGA CTGCAA CTCCAAGCT G GTCATTATCA CCGCGGGGC
 CCGTCAGCAA GAGGAGAGA GCCGGCTCAA TTGCTCCAG CGAAACGTGA ACATCTTCA A GTTCATCATT CCAAATGTTG
 TGAATACAG TCCACAGTGC AAAC TGCTCAAA CCCAGTGAT ATCTGACC T ACGTGGCTTG GAAGATCAGC
 GGCTTCCCA AAAACAAGT TATTGGAAGT GGTGCAATC TGGATTGGC TCGGTTCCG T TACCTGATGG GAGAAAGCT
 GGGAGTTCAI CCACTGAGCT GTCACGGTG GGTCTGGGA GAGCATGGCG ACTCCAGTG T GCCTGTGTG AGTGTGTGA
 ACGTCGCCG CGTCTCCCTG AAGTCTCTGA ACCCGCAGCT GGGCAGGAT GCAGACAAG G AGCAGTGAA GGATGTGCAC
 AAGCAGGTG TTGACAGTGC ATACGAAGTG ATCAAGCTGA AAGTTACAC ATCCTGGGC C ATTGGCCTCT CCGTGCAGA
 CTTGGCCGAG AGCATATGA AGAACCTTAG GCGGTGCAT CCCATTCCA CCATGATTA A GGGTCTCTAT GGGATCAAGG
 AGGATGTCTT CCTCAGCGTC CCATGTATCC TGGACAATAA TGGAACTCA GATGTTGTG A AGGTGACACT GACTCCTGAC
 GAGGAGGCCC GCCTGAAGAA GAGTCAGAT ACCCTCTGGG GAATCCAGAA GGAGCTGCA G TTCTAAAGTC TTCCCAAGTGT
 CCTAGCACTT CACTGTCCAG GCTGACGAG GTTTCTATG GAGACCACGC ACTTCTCATC TGA GCTGTGG TTAGTCCAGT
 TGGTCCA

- Mitochondrial start site
- \$ cytosolic start site
- Overlined 5'ORF
- Primer sequences are underlined

Fig. 12A

MSKNSGGYTTTETSVLFFHFKVPKDSKSKMAALKDQILVNLKEEQVPQNKITVVGAVGMACA
ISILMKDLADELALVDVIEDKLGEMMDLQHGSLFKTPKIVSSKDYSVTANSKLVIITAGARQO
EGESRLNLVQRNVNIFKFIIPNVVKYSPQCKLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLD
SARFRLMGERLGVHPLSCHGWLGEHGDSSVPWSGVNVAGVSLKSLNPQLGTDADKEQWKDVH
KQVVD SAYEVIKLGKGYTSWAIGLSVADLAESIMKNLRVHPISTMIKGLYGIKEDVFLSVPCLLG
QNGISDVVKVTLTTPDEEARLKKSADTLWGIQKELQF

Fig. 12B

GAGCAACTTGGCGCTTACTTGCTGTAGGGCTCTGGGTGATGGGAGAAGACGGGAGGCAGCT TTCTAACCATATAAGAGAGATA
CCATCCCCCTTTTGGTTCATCAAGATGAGTAAGTCCCTCAGCGGCTACACGTACACGGAGACCTCGGTATTATTTTCCATTTCGAAGG
TCTCAAAAGATTCAAGTCCAAGATGGCAACCTCAAGGACCGAGCTGATTGTGAATCTTTAA GGAAGACGAGGCTCCCCAGAACA
AGATTACAGTTGTTGGGTTGGTCTGTTGGCATGGCTTTGCCATCAGTATCTTAATGAAGGA CTTGGCGGATGAGCTTGCCCTTG
TTGACGTCATGGAAGACAACCTCAAGGGCGAGATGATGGATCTCCAGCATGGCAGCCTCTTCC TAAACACACCAAAATTGCTCCA
GCAAAAGACTACTGTGTAACCTGCAACTCCAAGCTGTCATTATCACCGCGGGGCGCCGTACGA AGAGGGGAGAGCCGGCTCAACC
TGGTCCAGCGAAACGTGAACATCTTCAAGTTCATCATTTCCCAACATTGTCAAGTACAGTCCACA CTGCAAGCTGCTGATCGTCCCA
ATCCAGTGGATATCTTGACCTACGTGGCTTGAAAATCAGTGGCTTTCCCAAAAACCGAGTAAT TGAAGTGGTTGCAATCTGGAAT
CAGCGCGGTTCCGTTACCTGATGGAGAGAGGCTGGGGGTTCA CGCGCTGAGCTGTCA CGGCTG GGTCTGGGAGAACATGGCGACT
CCAGTGTCCCTGTGTGAGTGGTGAATGTTGCCGCGTCTCCCTGAAGTCTCTTAACCCAGA ACTGGGCACTGACGCAAGACAAGG
AGCAGTGAAGGAGGTTCAAGACAGGTGGTGACAGTGCCCTACGAGGTGATCAAGCTGAAAGG TTACACATCCTGGGCCATTGGCC
TCTCTGTGGCAGACTTGGCTGAGAGCATTAATGAAGAACCTTAGGCGGGTGCA TCCCAITTTCCAC CATGATTAAAGGCTCTATGAA
TCAATGAGGATGTCTTCCCTCAGTGTCCCATGTATCCTGGACAAAATGGAATCTCGGATGTTGT GAAGTGACACTGACTCCTGAGG
AAGAGGCCCCCTGAAGAAAGCGCAGACACCCCTCTGGGGAATCCAGAAAGGAGCTGCAGTTCTA AAGTCTTCCCCGTCTAGCAC
TTCACTGTCCAGGCTGCAGCAGGCTTCTAGGCAGACCAACACCCTTCTCGTCTGAGCTGTGTT AGTACAGTGTGTGATGAGATG
TGGGAAACATCTCACTCCCCACAGCTCTGCCCTGCTGCCAAGTGTACTTGTGTAGTGTGAC CTGTTAGTGTGACAGTCCCACT
GTCTCTGAGACACACTGCCAACTGCAGGCTTCGATTACCCCTGTGAGCCCTGTCGATTGCTGCC CTGCACCAAAACAGCCTAGGCCGA
CGAGTCCCAAGTTAAGTCGTATAACCTGGCTCCAGTGTGTACGTCCATGATGCATATCTTGTGC ATAAATGTTGTACAGGATATTTT
ATATATTATATGTGTCTGTAGTGTGCAATTGCAATATTATGTAGATGTAAGATCTGCATATATGA TGATGGAACCAACCAACCAAGTG
TCATGCCAAATAAAACCTTGAACAGTG

Fig. 12C

MSKSSGGYTTTETSVLFFHFVKVSKDSKSKMATLKDQLIVNLLKEEQAPQNKITVVGVGAVGMACA
ISILMKDLADELALVDVMECKLKGEIMDLQHGSLFLKTPKIVSSKDYCVTANSKLVIIITAGARQO
EGESRLNLVQRNVNIEFKFII PNIVKYSPHCKLLIVSNPVDILTYVAWKISGF PKNRVIGSGCNLD
SARFRLMGERLGVHALSCHGVLGEHGDSSVPWSGVNVAGVSLKSLNPELGTADADKEQWKEVH
KQVDSAYEVIKLKGYTSWAIGLSVADLAESIMKNLRVHPISTMIKGLYGINEDVFLSVPCILG
QNGISDVVKVTLLTPEEEARLKKSADTLWGIQKELQF

Fig. 12D

CTCTGGTGTTTACTTGAGAAGCCCCTGCGTGTCTCCTTGCTGTAGAGCCGGAGTAGCTCAGAGT GATCTTGTCTGAGGAAAGGCCAG
CCCCACTTGGTTAATAAACCGCGATGGGTGAACCCCTCAGAGGCGTATACTTACACCCAAACGTC GATATTCCTTTTCCACGCTAGA
TTCCCTTTGGTTTCCAAGTCCAATATGGCACTCTAAAGGATCAGCTGATTTATACTTTCTAA GGAAGACAGACCCCCCAGAATA
AGATTACAGTTGTTGGGTTGGTCTGTTGGCATGGCCCTGTGCCATCAGTATCTTAATGAAGGA CTTGGCAGATGAACCTTGCTCTTG
TTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGATCTCCAACATGGCAGCCCTTTCC TAGAACACCAAAGATTGCTCTG
GCAAAGACTATAATGTAACTGCAAACTCCAAGCTGGTCATTATCACGGCTGGGGCAGTCAGCA AGAGGGAGAAAGCCGCTTAAAT
TGGTCCAGCGTAAACGTGAACATATTTAAATTCATCATTCCTAATGTTGTAATAATACAGCCCGAA CTGCAAGTTGCTTATTGTTCAA
ATCCAGTGGATATCTTGACCTTACGTGGCTTGGAAGATAAGTGGTTTCCCAAAAACCGTGTAT TGAAGTGGTTGCAATCTGGAAT
CAGCCCGATTCCGTTACCTGATGGGGAAAGCGTGGAGTTCACCCATTAGCTGTCA TGGGTG GGTCCTTGGGGAACATGGAGATT
CCAGTGTGCCCTGTATGGAGTGAATGAATGTTGCTGTCTCTCTGAAGACTCTGCACCCAGA TTTAGGGACTGATAAAGATAAGG
AACAGTGAAGAAGGTTCAACAAGCAGTGGTTGAGAGTGCTTATGAGGTGATCAAAC TCAAGG CTACACATCCCTGGGCTATTGGAC
TCTCTGTAGCAGATTTGGCAGAGAGTATAATGAAGAACTTTAGGCGGGTGCACCAGTTCCAC CATGATTAAAGGCTTTACGGAA
TAAAGGATGATGTCCTTCTTAGTGTCTTGCATTTTGGACAGAATGAATCTCAGACCTTGT GAAGTGACTCTGACTTCTGAGG
AAGAGGCCCCGTTTGAAGAAGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTT AAGTCTTCTGATGTCATATCAT
TCACTGTCTAGGCTACACAAGGATTTAGGTGAGGTTGTGCATGTTGTCTTTTATCTGATC TGTGATTAAGCAGTAATATTTT
AAGATGGA CTGGGAAAAACATCAACTCCTGAAGTTAGAAATAAGAA TGGTTGTAAAAATCCACA GCTATATCCTGATGCTGATGTT
ATTAATCTTGTAGTCTTCAACTGTTAGTGTGAATAAGTCTCTGCCACCTCTGACGCAACCACT GCCAATGCTGTACGTA CTGCAAT
TGCCCCTTGAGCCAGGTGGATGTTTACC GTGTGTATATACTTCC TGGCTCCTTCACTGAACA TGCCTAGTCCAAACATTTTCC
AGTGAGTCACATCCTGGGATCCAGTGTATAAATCCAATATCATGTCCTTGTGCATAATTTCTTCCA AAGGATCTTATTTTGTGAAC TAT
ATCAGTAGTGTA CATTACCATATAATGTAAAAAGATCTACATACAACAATGCAACCAACTATC CAAGTGTATATACCAACTAAAAAC
CCCAATAAACCTTGAACAGTG

Fig. 12E

MGEPSGGYTYTQTSLFLHAKIPFGSKSNMATLKDQLINYLLKEEQTPQNKITTVGVGAVGMACA
ISILMKDLADELALVDVIEDKLKGEMMDLQHGSLFLRTPKIVSGKDYNTANSKLVIIITAGARQ
EGESRLNVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLD
SARFRLMGERLGVHPLSCHGWLGEHGDSVPVWSGMNVAGVSLKTLHPDLGTDKDKKEQWKEVH
KQVESAYEVIKLGKGYTSWAIGLSVADLAESIMKNLRRVHPVSTMIGLYGIKDDVFLSVPCILG
QNGISDLVKVTLTSEEEARLKKSADTLWGIQKELQF

Fig. 12F

Fig. 13B

326	ratmi tLbHc1oned	GAGCTTGCCCTTGTTGATGTCATGAAAGATGAAGGAGAGATGAT	*****
336	mousemi tLbHmRNA	GAGCTTGCCCTTGTTGATGTCATGAAAGATGAAGGAGAGATGAT	*****
376	ratmi tLbHc1oned	GGATCTTCAAGCATGGCCGCTTTCTTAAGACACCAAAATTTGTCTCCA	*****
386	humanmi tLbHmRNA	GGATCTTCAAGCATGGCCGCTTTCTTAAGACACCAAAATTTGTCTCTG	*****
386	mousemi tLbHmRNA	GGATCTTCAAGCATGGCCGCTTTCTTAAGACACCAAAATTTGTCTCCA	*****
426	ratmi tLbHc1oned	GCAAAGATTATAGTGTGACTGCAAACTCCAAGCTGGTTCATTATCACCGCG	*****
436	humanmi tLbHmRNA	GCAAAGACTATATAGTGTGACTGCAAACTCCAAGCTGGTTCATTATCACCGCT	*****
436	mousemi tLbHmRNA	GCAAAGACTATAGTGTGACTGCAAACTCCAAGCTGGTTCATTATCACCGCG	*****
476	ratmi tLbHc1oned	GGGGCCCGTCAAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	*****
486	humanmi tLbHmRNA	GGGGCAGCTCAAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	*****
486	mousemi tLbHmRNA	GGGGCCCGTCAAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	*****
526	ratmi tLbHc1oned	CGTGAACATCTTTCAGATTTCATCATTCCTTAATGTTGTAATAATACAGTCCAC	*****
536	humanmi tLbHmRNA	CGTGAACATATTTAATTCATCATTCCTTAATGTTGTAATAATACAGCCGA	*****
536	mousemi tLbHmRNA	CGTGAACATCTTTCAGATTTCATCATTCCTTAATGTTGTAATAATACAGTCCAC	*****
576	ratmi tLbHc1oned	AGTGAACACTGCTCATGCTCTCAACAGTGGATATCTTTGACCTTACGTTG	*****
586	humanmi tLbHmRNA	ACTGCAAGTTGCTTATTTGTTTCAAACTCAGTGGATATCTTTGACCTTACGTTG	*****
586	mousemi tLbHmRNA	ACTGCAAGCTGCTGATCGTCTCCAATCTCAGTGGATATCTTTGACCTTACGTTG	*****
626	ratmi tLbHc1oned	GTTGAAGATCAAGCCGCTTCCCAAAACAAAGTTATTTGAAGTGTGTTG	*****
636	humanmi tLbHmRNA	GTTGAAGATTAAGTGTGTTTCCCAAAACAAAGTGTATTTGAAGTGTGTTG	*****
636	mousemi tLbHmRNA	GTTGAATAATCAGTGTGCTTCCCAAAACAAAGTGTATTTGAAGTGTGTTG	*****
676	ratmi tLbHc1oned	CAATCTGGATTGGGCTCGGTTCCGTTACCTGATGGGAGAAAGGCTGGGAG	*****
686	humanmi tLbHmRNA	CAATCTGGATTTCAGCCCGGATTCGCTTACCTGATGGGAGAAAGGCTGGGAG	*****
686	mousemi tLbHmRNA	CAATCTGGATTTCAGCGCGGCTTCGCTTACCTGATGGGAGAGAGGCTGGGAG	*****
726	ratmi tLbHc1oned	TTCATCTCACTGAGCTGTCTCAGCGGCTGGGCTCCTGGGAGAGCATGGCGACTCC	*****
736	humanmi tLbHmRNA	TTCACTCATTAAGCTGTCTCAGCGGCTGGGCTCCTGGGAGAAACATGAGATTCC	*****
736	mousemi tLbHmRNA	TTCACTCGGCTGAGCTGTCTCAGCGGCTGGGCTCCTGGGAGAAACATGAGACTCC	*****
776	ratmi tLbHc1oned	AGTGTGCCCTGTGTGAGAGTGTGTAACGTCGCGCGGCTCCTCCCTGAAGTTC	*****
786	humanmi tLbHmRNA	AGTGTGCCCTGTGTGAGAGTGTGTAACGTCGCGCTGTGTGCTCCTCCCTGAAGAC	*****
786	mousemi tLbHmRNA	AGTGTGCCCTGTGTGAGAGTGTGTAACGTCGCGCGGCTCCTCCCTGAAGTTC	*****

Fig. 13C

826	ratmi tLbDHC1oned	TCTGAACCCGACCTGGGCGACGATGACGAAGAGCAGTGGAAAGGATG	*****
836	humanmi tLbDHC1oned	TCTGACCCAGATTGAGGACTGATAAGGATGGAAGGAGG	*****
836	mousemi tLbDHC1oned	TCTTAACCCAGAACTGGGGCACTGACGACGAAGAGCAGTGGAAAGGAGG	*****
876	ratmi tLbDHC1oned	TGCACAAGCAGGTTGGTTGACAGTGCATACGAAGTGATCAAGCTGAAGGAT	*****
886	humanmi tLbDHC1oned	TTCAACAAGCAGGTTGGTTGAGAGTGCTTATGAGGTTGATCAAACTCAAGGCT	*****
886	mousemi tLbDHC1oned	TTCAACAAGCAGGTTGGTTGAGAGTGCTTATGAGGTTGATCAAGGCTGAAGGAT	*****
926	ratmi tLbDHC1oned	TACACATCCCTGGGCGCATTTGGCTCTCTGTCAGAGACTTTGGCGTGAAGGAT	*****
936	humanmi tLbDHC1oned	TACACATCCCTGGGCGCATTTGGCTCTCTGTCAGAGACTTTGGCGTGAAGGAT	*****
936	mousemi tLbDHC1oned	TACACATCCCTGGGCGCATTTGGCTCTCTGTCAGAGACTTTGGCGTGAAGGAT	*****
976	ratmi tLbDHC1oned	AATGAAGAATCTTGAAGCGGGTGCA-TTCCAGTTCACCACTGATTTAAGGCT	*****
986	humanmi tLbDHC1oned	AATGAAGAATCTTGAAGCGGGTGCA-TTCCAGTTCACCACTGATTTAAGGCT	*****
986	mousemi tLbDHC1oned	AATGAAGAATCTTGAAGCGGGTGCA-TTCCAGTTCACCACTGATTTAAGGCT	*****
1025	ratmi tLbDHC1oned	CTCTATGGGATCAAGGAGTGTCTCTCCTCAGCGGCTCCCATGTATCTCCTGGG	*****
1035	humanmi tLbDHC1oned	CTTTACGGGAATTAAGGATGTCTCTCCTCAGTGTCTTCCATTTTGGG	*****
1035	mousemi tLbDHC1oned	CTCTATGGGAATCAATGAAGGATGTCTCTCCTCAGTGTCTTCCATGTATCTCCTGGG	*****
1075	ratmi tLbDHC1oned	ACAAATGGGAATCTCAGAGTGTGTAAGGTAAGTGTGTAAGGTAAGTGTGTAAGGTAAG	*****
1085	humanmi tLbDHC1oned	ACAGATGGGAATCTCAGAGTGTGTAAGGTAAGTGTGTAAGGTAAGTGTGTAAGGTAAG	*****
1085	mousemi tLbDHC1oned	ACAAATGGGAATCTCAGAGTGTGTAAGGTAAGTGTGTAAGGTAAGTGTGTAAGGTAAG	*****
1125	ratmi tLbDHC1oned	AGGCCCGCTGAAGAGAGTGCAGATACCTCTGGGGAATCCAGGAAGGAG	*****
1135	humanmi tLbDHC1oned	AGGCCCGCTTGAAGAGAGTGCAGATACCTTGGGGGATCCAAAGGAG	*****
1135	mousemi tLbDHC1oned	AGGCCCGCTTGAAGAGAGTGCAGACACCTCTGGGGGATCCAGGAAGGAG	*****
1175	ratmi tLbDHC1oned	CTGCAGTTCTTAAAGTCTTCCAGTGTCTCCTAGCATTCTCAGTGTCCAGGCTG	*****
1185	humanmi tLbDHC1oned	CTGCAATTTTAAAGTCTTCT-GATGTCTATATCATTTCTCAGTGTCTAGGCTA	*****
1185	mousemi tLbDHC1oned	CTGCAGTTCTTAAAGTCTTCCCGTGTCTCCTAGCATTCTCAGTGTCCAGGCTG	*****
1225	ratmi tLbDHC1oned	CAGCAGGCTTCTA-TGG-AGACCAAGCAGC-TT-C-TG--ATCTGAG	*****
1234	humanmi tLbDHC1oned	CAACAGGATT-CTAGGTGG-AGGTTGTGATGTCTCTTTTATCTGAT	*****
1235	mousemi tLbDHC1oned	CAGCAGGCTTCTA--GGCAGACCAAGCAGC-TT-C-TG--GTCTGAG	*****
1264	ratmi tLbDHC1oned	CAGCAGGCTTCTA-TGG-AGACCAAGCAGC-TT-C-TG--ATCTGAG	*****
1282	humanmi tLbDHC1oned	CTGTGATTTAAAGCAGTAAATATTTTAAAGATGGACTGGGAAAAACAATCAACT	*****
1282	mousemi tLbDHC1oned	CTGTGATTTAAAGCAGTAAATATTTTAAAGATGGACTGGGAAAAACAATCAACT	*****
1275	mousemi tLbDHC1oned	CTGTGATTTAAAGCAGT-G-GTGTGAGATGGTGTGGGAAA-CAT---CT	*****

1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1382	TGCTGGATGGTATTAACTTTGTGTAGTCTTCACACTGGTGTAAGTGAATAA
mousem1tLDHmRNA	1342	TGCCAAGTGG---TA--CTTGTGTAGTGGTGGTAGCCTGGTGTAGTGA---CA
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1432	GTTCTGCACCTCTGACGCGCACCACTGCCAATGCTGTACGTACGTGCAATTG
mousem1tLDHmRNA	1385	GTCCCACTGTCTCTGTAGAGACAC-AC TGCCA--CTGCA-G-GCTTCGATT
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1482	CCCCTTGAGGCCAGGTGGATGTTTACC GG GTGTGTATTATTAACCTTCCCTGGCTC
mousem1tLDHmRNA	1430	CCCCCT-----G-TG-A-G-----CC-TG--CTG--C-A-TTGCTG-C-C
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1532	CCTTCACTGAACAATGCTTACCTTGAATCCAACATTTTTTTCGCCAGT-GAGTCACATC-
mousem1tLDHmRNA	1457	CTGCACCAAACA-GCCTAGGCCGGAAGAATT--CCCAGTTAAGTCCGTATAA
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1580	CTGGGATCCAGTGTATAAATCCAAAT-CATGTC TTGTGCA TTAATTCTTC
mousem1tLDHmRNA	1504	CCTGGCTCCAGTGTGTACGTTCCATGTATGTCATATCTTGTGCTAATAATGTTG
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1629	CAAGGATCTTATTT-TGTGAAC TATATATCAAGTATGTAACCATTA
mousem1tLDHmRNA	1554	TACAGGATATTTTATATATATATATATATGTGTCTGTAGTGTGCAATATT
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1678	ATGTAA-A---AAGATCTACATCAACAATGCAACAACCATATCCAAAGTG
mousem1tLDHmRNA	1604	ATGTGAGATGTAAAGATCTGCATATGGATGATGGAAACCAACCAACCAAGTG
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1724	TTATACCAACTTAAAAACCCCAATAA-ACCTTGAACAGTG
mousem1tLDHmRNA	1654	TCATGCCCAATAAAAACCTTGAACAGTG
1290	rattm1tLDHc1oned	1291
humanm1tLDHmRNA	1761	
mousem1tLDHmRNA	1680	

